

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/593,032  
Source: 1FWP  
Date Processed by STIC: 9/25/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 09/25/2006

PATENT APPLICATION: US/10/593,032

TIME: 10:29:17

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09252006\J593032.raw

```

3 <110> APPLICANT: Japan Science and Technology Agency
5 <120> TITLE OF INVENTION: CLINICAL DIAGNOSTIC REAGENT AND DIAGNOSTIC METHOD FOR
TESTING INFECTION
6     OF ADULT TAENIA SOLIUM AND TAENIA SAGINATA
8 <130> FILE REFERENCE: FS05-425PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/593,032
C--> 10 <141> CURRENT FILING DATE: 2006-09-15
10 <160> NUMBER OF SEQ ID NOS: 20
12 <170> SOFTWARE: PatentIn version 3.1
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 85
16 <212> TYPE: PRT
17 <213> ORGANISM: Taenia saginata
19 <400> SEQUENCE: 1
21 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala
22 1           5           10           15
25 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys
26           20           25           30
29 Lys Glu Lys Val Ala Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu
30           35           40           45
33 Gly Gln Lys Leu Ala Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys
34           50           55           60
37 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys Tyr Val Lys Glu
38 65           70           75           80
41 Leu Lys Asp Glu Asn
42           85
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 85
47 <212> TYPE: PRT
48 <213> ORGANISM: Taenia saginata
50 <400> SEQUENCE: 2
52 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala
53 1           5           10           15
56 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys
57           20           25           30
60 Lys Glu Lys Val Ala Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu
61           35           40           45
64 Gly Gln Lys Leu Ala Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys
65           50           55           60
68 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys His Val Lys Glu
69 65           70           75           80
72 Leu Lys Asp Glu Asn
73           85
76 <210> SEQ ID NO: 3

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77 &lt;211&gt; LENGTH: 85

78 &lt;212&gt; TYPE: PRT

79 &lt;213&gt; ORGANISM: Taenia saginata,

81 &lt;400&gt; SEQUENCE: 3

83 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala

84 1 5 10 15

87 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys

88 20 25 30

91 Lys Glu Lys Val Ala Lys Trp Glu Arg Phe Phe Asp Glu Asp Pro Leu

92 35 40 45

95 Gly Gln Lys Leu Ala Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys

96 50 55 60

99 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys Tyr Val Lys Glu

100 65 70 75 80

103 Leu Lys Asp Glu Asn

104 85

107 &lt;210&gt; SEQ ID NO: 4

108 &lt;211&gt; LENGTH: 85

109 &lt;212&gt; TYPE: PRT

110 &lt;213&gt; ORGANISM: Taenia saginata

112 &lt;400&gt; SEQUENCE: 4

114 Met Gly Val Ala Ile Ile Ala Leu Leu Thr Leu Leu Ala Val Val Ala

115 1 5 10 15

118 Val Ser Ala Glu Glu Lys Asn Pro Val Arg Ala Ile Arg Ala Arg Cys

119 20 25 30

122 Lys Glu Lys Val Ala Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu

123 35 40 45

126 Gly Gln Lys Leu Ala Asp His Tyr Ala Asn Trp Ile Glu Leu Val Lys

127 50 55 60

130 Glu Val Arg Leu Arg Ile Arg Lys Ala Ile Ala Lys His Val Lys Glu

131 65 70 75 80

134 Leu Lys Asp Glu Asn

135 85

138 &lt;210&gt; SEQ ID NO: 5

139 &lt;211&gt; LENGTH: 44

140 &lt;212&gt; TYPE: PRT

141 &lt;213&gt; ORGANISM: Taenia solium

143 &lt;400&gt; SEQUENCE: 5

145 Lys Asn Pro Val Arg Val Ile Arg Thr Lys Tyr Lys Glu Lys Val Ala

146 1 5 10 15

149 Lys Trp Glu Lys Phe Phe Asp Glu Asp Pro Leu Gly Gln Lys Ile Ala

150 20 25 30

153 Asp His Tyr Ala Lys Leu Arg Glu Leu Val Lys Glu

154 35 40

157 &lt;210&gt; SEQ ID NO: 6

158 &lt;211&gt; LENGTH: 71

159 &lt;212&gt; TYPE: PRT

160 &lt;213&gt; ORGANISM: Hymenolepis diminuta

162 &lt;400&gt; SEQUENCE: 6

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164 Met Glu Gln Glu Thr Asn Pro Ile Arg Arg Ile Lys Thr Lys Ala Lys  
 165 1 5 10 15  
 168 Glu Tyr Phe Ala Ala Arg Glu Arg Phe Tyr Asp Glu Asp Pro Leu Gly  
 169 20 25 30  
 172 Lys Gln Ile Ala Ala His Leu Ser Lys Trp Arg Glu Ile Ile Arg Asp  
 173 35 40 45  
 176 Val Arg Ala Arg Leu Arg Gly Tyr Leu Arg Lys Tyr Leu Asn Asp Leu  
 177 50 55 60  
 180 Gln Lys Glu Tyr Pro Lys Ala  
 181 65 70

184 &lt;210&gt; SEQ ID NO: 7

185 &lt;211&gt; LENGTH: 67

186 &lt;212&gt; TYPE: PRT

187 &lt;213&gt; ORGANISM: Moniezia expansa

189 &lt;400&gt; SEQUENCE: 7

191 Met Glu Gln Glu Thr Asn Pro Ile Arg Ala Ile Lys Lys Arg Ile Thr  
 192 1 5 10 15  
 195 Ser Tyr Leu Lys Ser Arg Glu Glu Phe Tyr Asp Lys Asp Pro Leu Gly  
 196 20 25 30  
 199 Gln Lys Ile Ala Lys Phe Tyr Gly Glu Trp Lys Glu Leu Val Ala Glu  
 200 35 40 45  
 203 Val Arg Lys Arg Val Arg Ala Arg Ile Ala Ala Tyr Val Lys Lys Leu  
 204 50 55 60  
 207 Gln Glu Glu  
 208 65

211 &lt;210&gt; SEQ ID NO: 8

212 &lt;211&gt; LENGTH: 258

213 &lt;212&gt; TYPE: DNA

214 &lt;213&gt; ORGANISM: Taenia saginata

216 &lt;400&gt; SEQUENCE: 8

217 atgggagtcg ccatcatcgc tctcctcacc ctcttggtcg tggtcgccgt gtcctgctgaa 60  
 219 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaaggtggc gaaatgggag 120  
 221 aagttctttg atgaggaccc tctaggccag aagcttgccg atcactatgc caagttgagg 180  
 223 gaactgggta aggaagttag actacgtatt cgtaaggcca ttgcaaagta tgtgaaggag 240  
 225 ttaaaggatg agaactga 258

228 &lt;210&gt; SEQ ID NO: 9

229 &lt;211&gt; LENGTH: 258

230 &lt;212&gt; TYPE: DNA

231 &lt;213&gt; ORGANISM: Taenia saginata

233 &lt;400&gt; SEQUENCE: 9

234 atgggagtcg ccatcatcgc tctcctcacc ctcttggtcg tggtcgccgt gtcctgctgaa 60  
 236 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaaggtggc gaaatgggag 120  
 238 aagttctttg atgaggaccc tctaggccag aagcttgccg atcactatgc caagttgagg 180  
 240 gaactgggta aggaagttag actacgtatt cgtaaggcca ttgcaaagca tgtgaaggag 240  
 242 ttaaaggatg agaactga 258

245 &lt;210&gt; SEQ ID NO: 10

246 &lt;211&gt; LENGTH: 258

247 &lt;212&gt; TYPE: DNA

248 &lt;213&gt; ORGANISM: Taenia saginata

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250 <400> SEQUENCE: 10
251 atgggagtcg ccatcatcgc tctcctcacc ctctctggctg tggtcgccgt gtctgctgaa      60
253 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaaggtggc gaaatgggag      120
255 aggttctttg atgaggaccc tctaggccag aagcttgccg atcactatgc caagttgagg      180
257 gaactgggta aggaagtga actacgtatt cgtaaggcca ttgcaaagta tgtgaaggag      240
259 ttaaaggatg agaactga                                     258
262 <210> SEQ ID NO: 11
263 <211> LENGTH: 258
264 <212> TYPE: DNA
265 <213> ORGANISM: Taenia saginata
267 <400> SEQUENCE: 11
268 atgggagtcg ccatcatcgc tctcctcacc ctctctggctg tggtcgccgt gtctgctgaa      60
270 gagaagaacc cagttcgtgc tatccgagcc agatgcaagg agaaggtggc gaaatgggag      120
272 aagttctttg atgaggaccc tctaggccag aagcttgccg atcactatgc caattggata      180
274 gaactgggta aggaagtga actacgtatt cgtaaggcca ttgcaaagca tgtgaaggag      240
276 ttaaaggatg agaactga                                     258
279 <210> SEQ ID NO: 12
280 <211> LENGTH: 310
281 <212> TYPE: DNA
282 <213> ORGANISM: Taenia solium
284 <400> SEQUENCE: 12
285 gtaagtgtac ttgtcattac cctaacccca ccttcgtctt ctagagaggt aagttcgtca      60
287 acttcgtcac attccacgtc catctttgca atatgcgaat ctaaacgtcg tccttgatag      120
289 aaaaaccacag ttcgtgttat ccgaaccaag tacaaggaga aggtggcgaa atgggagaag      180
291 ttctttgatg aggatcctct gggccaaaag atagccgata actatgccaa gttgagggaa      240
293 ctgggtaagg aaggtaggtt tgtgttgga caggctcctc cataacttgc atctccttct      300
295 ctcatcttag                                     310
298 <210> SEQ ID NO: 13
299 <211> LENGTH: 40
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: tag
306 <400> SEQUENCE: 13
307 cacgtctaga ctgcagaagc tttttttttt tttttttttt      40
310 <210> SEQ ID NO: 14
311 <211> LENGTH: 22
312 <212> TYPE: DNA
313 <213> ORGANISM: Artificial sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: pimer
318 <400> SEQUENCE: 14
319 atgcgtgcca cattttgctt ct                                     22
322 <210> SEQ ID NO: 15
323 <211> LENGTH: 22
324 <212> TYPE: DNA
325 <213> ORGANISM: Artificial sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: primer

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```

330 <400> SEQUENCE: 15
331 cacgtctaga ctgcagaagc tt                                22
334 <210> SEQ ID NO: 16
335 <211> LENGTH: 7
336 <212> TYPE: PRT
337 <213> ORGANISM: Taenia saginata
339 <400> SEQUENCE: 16
341 Phe Tyr Asp Glu Asp Pro Leu
342 1          5
345 <210> SEQ ID NO: 17
346 <211> LENGTH: 20
347 <212> TYPE: DNA
348 <213> ORGANISM: Artificial sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: primer
353 <220> FEATURE:
354 <221> NAME/KEY: misc_feature
355 <222> LOCATION: (18)..(18)
356 <223> OTHER INFORMATION: n means A, C, G or T.
359 <400> SEQUENCE: 17
W--> 360 ttytaygayg argayccnyt                                20
363 <210> SEQ ID NO: 18
364 <211> LENGTH: 23
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial sequence
368 <220> FEATURE:
369 <223> OTHER INFORMATION: primer
371 <400> SEQUENCE: 18
372 tcagttctca tcctttaact cct                                23
375 <210> SEQ ID NO: 19
376 <211> LENGTH: 20
377 <212> TYPE: DNA
378 <213> ORGANISM: Artificial sequence
380 <220> FEATURE:
381 <223> OTHER INFORMATION: primer
383 <400> SEQUENCE: 19
384 cgaacgccag cacatggaca                                    20
387 <210> SEQ ID NO: 20
388 <211> LENGTH: 21
389 <212> TYPE: DNA
390 <213> ORGANISM: Artificial sequence
392 <220> FEATURE:
393 <223> OTHER INFORMATION: primer
395 <400> SEQUENCE: 20
396 atgggagtcg ccatcatcgc t                                21

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; N Pos. 18

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/593,032

DATE: 09/25/2006

TIME: 10:29:18

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09252006\J593032.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0